

# DOCTOR OF PHILOSOPHY IN ENGINEERING MANAGEMENT

## Curriculum Structure

### The PhD Program (Total 60 Cr Hrs)

Curriculum Component	Number of Courses	Total Number Cr Hrs
Core Courses	5	15
Elective courses	4	12
Thesis	1	33
<b>Total:</b>	<b>10</b>	<b>60</b>

### Engineering Management Thesis Requirement (33 Cr Hrs)

Thesis course	
Course ID	Course Title
DENG 899	PhD Thesis

### Core Required Courses (15 Cr Hrs)

Core Requirements (6 Cr Hrs)	
Course ID	Course Title
DENG 602	Applied Research Methodology
DENG 621	Graduate Seminar
Core Requirements sub-package (9 Cr Hrs)	
DENG 603	Advanced Numerical Analysis
DENG 604	Applied Statistics Techniques
DENG 624	Innovation and Technology Management
DENG 625	Sustainable Development
DENG 626	Modeling and Simulation

### Concentration in Engineering Management (12 Cr Hrs)

Elective courses	
Course ID	Course Title
EMP 704	Business Process Improvement Analysis
EMP 706	Production and Operations Management
EMP 707	Enterprise Information Analysis and Applications
EMP 708	Advanced Decision Analysis Techniques
EMP 722	Management and Tools for Service Operations
EMP 751	Advanced Special Topics I

## STUDY PLAN

### FIRST SEMESTER (9Cr Hrs)

Term	Course #	Course Title	Cr Hrs
Fall	DENG 602	Applied Research Methodology	3
	DENG XXX	Core Required Course I	3
	EMP XXX	Concentration Elective Course I	3
Total			9

### SECOND SEMESTER (9 Cr Hrs)

Term	Course #	Course Title	Cr Hrs
Spring	DENG 621	Graduate Seminar	3
	DENG XXX	Core Required Course II	3
	EMP XXX	Concentration Elective Course II	3
Total			9

### THIRD SEMESTER (9 Cr Hrs)

Term	Course #	Course Title	Cr Hrs
Fall	DENG XXX	Core Required Course III	3
	EMP XXX	Concentration Elective Course III	3
	EMP XXX	Concentration Elective Course IV	3
Total			9

### FOURTH SEMESTER (9 Cr Hrs)

Term	Course #	Course Title	Cr Hrs
Spring	DENG 899	PhD Thesis	9
Total			9

### FIFTH SEMESTER (12 Cr Hrs)

Term	Course #	Course Title	Cr Hrs
Fall	DENG 899	PhD Thesis	12
Total			12

### SIXTH SEMESTER (12 Cr Hrs)

Term	Course #	Course Title	Cr Hrs
Fall	DENG 899	PhD Thesis	12
Total			12